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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/628,501	07/28/2003	Yong Li	IR-2316 (2-3605)	5067
7590 05/23/2006 OSTROLENK, FABER, GERB & SOFFEN 1180 Avenue of the Americas New York, NY 10036-8403			EXAMINER	
			BERHANE, ADOLF D	
			ART UNIT	PAPER NUMBER
			2838	
			DATE MAILED: 05/23/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

1) Responsive to communication(s) filed on		Application No.	Applicant(s)			
Adoff Berhane  - The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONITH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - If NO period for reply is specified above, the maximum statutory served will apply and well-gerie SX (8) MONITHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory served will apply and replicate SX (8) MONITHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory served will apply and replicate SX (8) MONITHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory served will apply and replicate SX (8) MONITHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory served will apply and replicate SX (8) MONITHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory served will apply and replicate SX (8) MONITHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory served will apply and replicate SX (8) MONITHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory served will apply and replication of the maximum statutory served will apply and replication of formal matters, prosecution as to the marries of the maximum statutory served will apply and replication of Claims  - If NO period for Replication is of the maximum statutory served will apply and replication of Claims  - If NO period for Replication is objected to by the Examiner.  - If NO period for Replication is objected to by the Examiner.  - If NO period for Replication is objected for by the Examiner.  - If NO period for Replication is objected for by the Exa		10/628,501	LI ET AL.			
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WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Editaritions of the may be available under the provision of 3 CFR 1.15(a). In ne event, however, may a regly be timely fixed after SX (6) MONTISS from the mailing date of this communication.  Failine to recy within the set or estuded period for rey will, by statula, cause the application to beam analyzed acts of this communication.  Failine to recy within the set or estuded period for rey will, by statula, cause the application to beam analyzed 15 st. 9.5 (±1.33). Any reply received by the Diffes later than these months after the mailing date of this communication, even if sinely filed, may reduce any earned paths that the mailing date of this communication, even if sinely filed, may reduce any earned paths that the mailing date of this communication, even if sinely filed, may reduce any earned paths of the provided period for reply will by statula, cause the application of the same of the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4 SC Claim(s) 10.20.29.31.32 and 34.39 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5 □ Claim(s) is/are allowed.  6 SC Claim(s) is/are objected to.  9 □ Claim(s) is/are objected to.  9 □ The specification is objected to by the Examiner.  10 SC The drawing(s) filed on is/are objected to by the Examiner.  Application Papers  9 □ The specification is objected to by the Examiner.  Application Papers  9 □ The drawing(s) filed on is/are objected to by the Examiner.  Application Papers  9 □ The cath or declaration is objected to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) to objected to. See 37 CFR 1.121(d).  11 □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  3 □ All by Cartified copies of the priority docume	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
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			atent Application (PTO-152)			

#### **DETAILED ACTION**

### Claim Objections

1. Claims 10, 27, 32, 37, 39 are objected to because of the following informalities: The second sensor according to Fig. 3 senses the input DC voltage and current to the DC/AC converter and not the output AC voltage and current of the motor, therefor the output power can't be obtained based on the measurement of speed and torque of a motor. Appropriate correction is required.

#### **Drawings**

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the signal indicative of output power obtained based on direct measurement of speed and torque of motor must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering

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of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 20-26, 28, 29, 31, 34-36 and 38 are rejected under 35 U.S.C. 102(b) as being anticipated by Maehara et al. (5,063,490).

Maehara et al. disclose a regulated chopper and inverter with shared switches in Figs. 14, 15 and 18. An input power conditioning unit adapted for connection to and input power source (Vs), a power control unit (10), first sensor (11), second sensor (12), rectification circuit (1), load (L), bus capacitor (C) coupled to an input of the power inverter (2), obtaining an indication of input power (11), obtaining an indication of output power (12), controlling a power conversion unit (10).

5. Claims 27, 32, 37 and 39 would be allowable if rewritten to overcome the claim objection, set forth in this Office action and to include all of the limitations of the base

claim and any intervening claims.

6. Claim 10 would be allowable if rewritten or amended to overcome the claim

objection, set forth in this Office action.

Response to Arguments

7. Applicant's arguments with respect to claims 20-22, 24-26, 28, 29, 31, 34-36 and

38 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adolf Berhane whose telephone number is 571-272-

2077. The examiner can normally be reached on Monday- Friday 8 AM to 6 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Karl Easthom can be reached on 571-272-1989. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Adolf Berhane
Primary Examiner

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